

CONTACT INFORMATION	School of Computer Science, Carnegie Mellon University, United States 5000 Forbes Ave, Pittsburgh, PA 15213, United States	Tel: +1-4128440907 jinpeig@andrew.cmu.edu Homepage, GitHub
RESEARCH INTERESTS	Low-Level Computer Vision, Diffusion Models.	
EDUCATION	<b>Carnegie Mellon University</b> , Pittsburgh, PA, United States Master, Computer Science <b>Shanghai Jiao Tong University</b> , Shanghai, China Bachelor, Computer Science	Aug 2024 – Dec 2025 Sep 2020 – Jul 2024
PUBLICATIONS	<p>* denotes equal contribution</p> <ol style="list-style-type: none"> <li>1. <b>Jinpei Guo</b>, Yifei Ji, Zheng Chen, Yufei Wang, Sizhuo Ma, Yong Guo, Yulun Zhang, Jian Wang, “Towards Redundancy Reduction in Diffusion Models for Efficient Video Super-Resolution,” <i>arXiv</i>, 2025.</li> <li>2. <b>Jinpei Guo</b>, Yifei Ji, Zheng Chen, Kai Liu, Min Liu, Wang Rao, Wenbo Li, Yong Guo, and Yulun Zhang, “OSCAR: One-Step Diffusion Codec for Image Compression Across Multiple Bit-rates,” <i>Neural Information Processing Systems (NeurIPS)</i>, 2025.</li> <li>3. <b>Jinpei Guo</b>, Zheng Chen, Wenbo Li, Yong Guo, and Yulun Zhang, “Compression-Aware One-Step Diffusion Model for JPEG Artifact Removal,” <i>International Conference on Computer Vision (ICCV)</i>, 2025.</li> <li>4. Tingyu Yang, Jue Gong, <b>Jinpei Guo</b>, Wenbo Li, Yong Guo, Yulun Zhang, “SODiff: Semantic-Oriented Diffusion Model for JPEG Compression Artifacts Removal,” <i>arXiv</i>, 2025.</li> <li>5. Zheng Chen, Mingde Zhou, <b>Jinpei Guo</b>, Jiale Yuan, Yifei Ji, Yulun Zhang, “Steering One-Step Diffusion Model with Fidelity-Rich Decoder for Fast Image Compression,” <i>arXiv</i>, 2025.</li> <li>6. Yang Li*, <b>Jinpei Guo*</b>, Runzhong Wang, Hongyuan Zha, and Junchi Yan, “Fast T2T: Optimization Consistency Speeds Up Diffusion-Based Training-to-Testing Solving for Combinatorial Optimization,” <i>Neural Information Processing Systems (NeurIPS)</i>, 2024.</li> <li>7. <b>Jinpei Guo</b>, Shaofeng Zhang, Runzhong Wang, Chang Liu, and Junchi Yan, “GMTR: Graph Matching Transformers,” <i>IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)</i>, 2024.</li> <li>8. Zhaoyu Li, <b>Jinpei Guo</b>, Xujie Si, “G4SATBench: Benchmarking and Advancing SAT Solving with Graph Neural Networks,” <i>Transactions on Machine Learning Research (TMLR)</i>, 2024.</li> <li>9. Yang Li, <b>Jinpei Guo</b>, Runzhong Wang, and Junchi Yan, “From Distribution Learning in Training to Gradient Search in Testing for Combinatorial Optimization,” <i>Neural Information Processing Systems (NeurIPS)</i>, 2023.</li> <li>10. Zhaoyu Li, <b>Jinpei Guo</b>, Yuhe Jiang, and Xujie Si, “Learning Reliable Interpretations with SATNet,” <i>Neural Information Processing Systems (NeurIPS)</i>, 2023.</li> </ol>	

INTERNSHIP	<b>Machine Learning Engineer Intern</b> <b>Alibaba</b> in Shanghai, China Developed an LLM-driven time-series forecasting pipeline integrating a novel “time2text” embedding for sequential data modeling, improving generalization across diverse datasets and enabling unified prediction within a single framework.	Apr 2024 – Jul 2024
GIFT FUNDINGS	<ul style="list-style-type: none"> <li>Snap Inc. Gift Funding, ¥108,000</li> </ul>	2025
AND	<ul style="list-style-type: none"> <li>Chiang Chen Overseas Graduate Fellowship (10 recipients nationwide), ¥360,000</li> </ul>	2024
SCHOLARSHIP	<ul style="list-style-type: none"> <li>SenseTime Scholarship (30 recipients nationwide), ¥20,000</li> <li>Chinese National Scholarship, ¥8,000×2</li> <li>Shanghai Scholarship, ¥8,000</li> </ul>	2023 2022, 2023 2021
SKILLS	<ul style="list-style-type: none"> <li>Computing Skills: Algorithms, Data Structure, Machine Learning.</li> <li>Programming: Python, C/C++, Matlab, <math>\text{\LaTeX}</math>.</li> <li>Programming Frameworks: Pytorch, Scikit-Learn, TensorFlow, Keras.</li> </ul>	